MSDS of Tungsten Boride

Chinatungsten Online (Xiamen) Manu. & Sales Corp.

SECTION I – SUBSTANCE AND COMPANY IDENTIFICATION
Product/Material: Tungsten Boride
Chemical Formula: W2B5
Company Identification
Company Name: Chinatungsten Online (Xiamen) Manu. & Sales Corp.
Add: 3F, No.25-2 WH Rd., Xiamen Software Park II, FJ 361008, China
Tel: +86 592 512 9595 / 512 9696
Fax: +86 592 512 9797
Email:sales@chinatungsten.com
Poison Center
Phone Number: +0086 120
Opening Hours: 24/7

SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS
C.A.S. Number: 12007-98-6
Component Name: Tungsten Boride
Percent: 99.9%

SECTION III – HAZARDS IDENTIFICATION
Classification
Label Elements
Not Required
Hazard or Otherwise Classified (HNOC)
Not identified

SECTION IV – FIRST AID MEASURES
Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

Skin Contact
Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Inhalation
Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion
Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects
None reasonably foreseeable.
Notes to Physician
Treat symptomatically

SECTION V – FIRE FIGHTING MEASURES
Unsuitable Extinguishing Media
No information available
Flash Point
No information available
Method
No information available
Autoignition Temperature
No information available
Explosion Limits
Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available
Specific Hazards Arising from the Chemical
Keep product and empty container away from heat and sources of ignition.
Hazardous Combustion Products
None known.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION VI – ACCIDENTAL RELEASE MEASURES
Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.
Environmental Precautions Should not be released into the environment. See Section 12 for additional Ecological Information.
Methods for Containment and Clean Up Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

SECTION VII – HANDLING AND STORAGE
Precautions for Safe Handling Do not breathe dust. Wash thoroughly after handling. Wear protective gloves/clothing and eye/face protection. Use only outdoors or in a well-ventilated area.
Storage Protect from light.

SECTION VIII – EXPOSURE CONTROL/PERSONAL PROTECTION
Component Exposure Limits
ACGIH: 3 mg/m³ TWA (in the absence of cobalt) as W respirable particulate
matter (related to Tungsten compounds)

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product’s components.

Engineering Controls None under normal use conditions.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing.

Respiratory Protection

No protective equipment is needed under normal use conditions.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: grey powder
Physical State: solid
Odor: odorless
Odor Threshold: Not available
pH: Not available
Melting Point: Not available
Boiling Point: Not available
Boiling Point Range: Not available
Freezing point: Not available
Evaporation Rate: Not available
Flammability (solid, gas): Not Flammable
Autoignition Temperature: Not available
Flash Point: (Not flammable)
Lower Explosive Limit: Not available
Decomposition temperature: Not available
Upper Explosive Limit: Not available
Vapor Pressure: Not available
Vapor Density: Not available
Specific Gravity (water=1): 15.25g/cm3
Water Solubility: Not available
Partition coefficient: n-octanol/water: Not available
Viscosity:Not available
Kinematic viscosity: Not available
Solubility (Other): Not available
Molecular Formula: W2B5
Molecular Weight:421.76
Stability: Light sensitive
Conditions to Avoid: Exposure to light
Incompatible Materials: Strong oxidizing agents
Hazardous Decomposition Products: None under normal use conditions
Hazardous Polymerization: Hazardous polymerization does not occur.
Hazardous Reactions: None under normal processing

SECTION X – STABILITY AND REACTIVITY
Reactive Hazard: None known, based on information available
Stability: Light sensitive.
Conditions to Avoid: Exposure to light.
Incompatible Materials: Strong oxidizing agents
Hazardous Decomposition Products: None under normal use conditions
Hazardous Polymerization: Hazardous polymerization does not occur.
Hazardous Reactions: None under normal processing.

SECTION XI – TOXICOLOGICAL INFORMATION
Information on Likely Routes of Exposure
Inhalation  
Not available
Skin Contact 
Not available
Eye Contact  
Not available
Ingestion 
Not available
Product Toxicity Data
Acute Toxicity Estimate 
No data available.
Immediate Effects  
Not available
Delayed Effects  
Not available
Irritation/Corrosivity Data 
Not available
Respiratory Sensitization 
No data available.
Dermal Sensitization 
No data available.
Component Carcinogenicity 
Not available
Germ Cell Mutagenicity 
No data available.
Tumorigenic Data 
No data available.
Reproductive Toxicity
Specific Target Organ Toxicity - Single Exposure
Not available.

Specific Target Organ Toxicity - Repeated Exposure
No data available.

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
Not available.

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity
Do not empty into drains.

Persistence and Degradability Insoluble in water

Bioaccumulation/ Accumulation No information available.

Mobility Is not likely mobile in the environment due its low water solubility

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION XIV – TRANSPORT INFORMATION

DOT Not regulated
TDG Not regulated
IATA Not regulated
IMDG/IMO Not regulated

SECTION XV – REGULATORY INFORMATION

No Special regulations. Not regulated (Observe national regulations)
(European Union: No Labeling is required in accordance with the EEC directives.
TRGS 900 Atmospheric Threshold Value: Insoluble Tungsten Compounds: 5 mg/m3
Handling restrictions: None
Major accident regulations: Not listed in the appendices.
Technical Instruction for Air Pollution Control: Figure 5.2.1 Total dust
Water Pollution class (WGK): Not harmful to water

SECTION XVI – OTHER INFORMATION

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